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Four Concepts In Solid Wastes

Four major areas in which new concepts for effective solid wastes management are needed were outlined at the First National Conference on Solid Wastes Management in April at the University of California. These four are:

1. Fragmenting of solid waste operations among small political subdivisions must end;
2. Waste management must be consolidated with planning for air and water pollution control;
3. Present emphasis on nature of solid wastes must be shifted to consideration of environmental consequences of their disposal; and
4. There must be new emphasis on research for reduction of wastes at the source, that is, through manufacturing processes that produce less solid wastes.

Use of Poultry Litter as Diet Supplement for Livestock

THE PRACTICE of feeding poultry litter to livestock as diet supplement is more widespread in this country than is generally presumed as the following letter with its accompanying citations indicates. Written by E.L. Stephenson, Head, Department of Animal Sciences at the University of Arkansas, the letter follows in full.

"Dear Mr. Goldstein:

"I just saw a copy of your July-August issue of COMPOST SCIENCE and the article entitled "New Uses of Poultry Manure". You mentioned that it is being used in England as a livestock supplement and refer to information to be published. We wonder why you ignore research conducted in this country, especially since it was the first of this nature to be published. I am enclosing several bulletins from the University of Arkansas which illustrate data collected here, and believe that this was the first time poultry manure was fed to livestock. There is also a considerable amount of data in the other states, most of which are west of the Mississippi, and also several papers that have been published in Canada.

"I feel reasonably sure that many cattle in this country have been fed on poultry manure, especially before the Food Drug Administration ruled that it was no longer legal to do so. I would estimate that hundreds of thousands, if not millions, of animals would currently be fed in this manner if the Food Drug Administration would approve. The matter is not a problem of information but a matter of permission, and we do not have to go to England to obtain feeding information relative to the product.

"Very truly yours,
E.L. Stephenson

The following citations, all issued by the Arkansas Agricultural Experiment Station, accompanied the letter.

General Information Concerning Feeding Chicken Litter to Beef Cattle.

Ray & Child: Wintering Steers on Broiler House Litter.

—Broiler House Litter Used as Roughage in Finishing Rations for Steers.

—Chicken Litter as a Supplement in Wintering Beef Cows and Calves on Pasture.

Ray & Cate: Chicken Litter as a Roughage in Finishing Beef Steers.

Other publications cited by the writer include:

The Use of Ground Chicken Litter as a Source of Nitrogen for Gestating - Lactating Ewes and Fattening Steers. J. Animal Science 14:860. 1955.

The Digestion and Utilization of Chicken Litter as a Nitrogen Source in Beef Cattle Rations. Proc. Assn. Southern Agr. Workers. 1958.

Rice Hull Base Chicken Litter Compared to Prairie Hay as Roughages in Finishing Rations for Yearling Steers. Second Annual Arkansas Animal Science Research Conference, 1966.

Effects of Types of Base Material on Digestibility of Chicken Litter. Third Annual Arkansas Animal Science Research Conference. 1967.

A Study of Coccidiostate Residues in Broiler Litter and Tissues of Beef Steers Fed Litter. Master's Thesis. Don C. Barnett, University of Arkansas. 1969.

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